

### ABSTRACT OF THE DISCLOSURE

A source follower in which any one of the following three modes is selected by a plurality of switching elements: a first mode in which a first potential is supplied to a gate of a transistor and an input potential is supplied to a  
5 first electrode of a capacitor respectively and a second electrode of the capacitor and a source of the transistor are connected, a second mode in which an input potential is supplied to the first electrode and the gate of the transistor and the second electrode floats, and a third mode in which the first electrode and the gate of the transistor are connected and a potential thereof floats and a second potential  
10 is supplied to the second electrode, a drain of the transistor is supplied with a third potential, and a potential of the source of the transistor is supplied to a subsequent circuit.